



## SEQUENCE LISTING

<110> Iyer, Suhasini  
Buelow, Roland  
Lazarov, Mirella  
Fong, Timothy

<120> Cytomodulating Peptides and Methods for Treating Neurological Disorders

<130> A-71364/TAL/DHR (465840-00509)

<140> 10/693,331  
<141> 2003-10-24

<150> 60/421,297  
<151> 2002-10-24

<150> 60/431,420  
<151> 2002-12-05

<150> 60/470,839  
<151> 2003-05-15

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<170> PatentIn version 3.2

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<222> (2)..(4)  
<223> The Xaa at positions 2 to 4 are norleucine or any D-stereoisomer amino acid

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<223> Nle

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<222> (6)..(8)  
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Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Gly Tyr  
1 5 10

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<222> (1)..(1)  
<223> The xaa at position 1 can be any basic amino acid, preferably lysine or arginine

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<222> (2)..(4)  
<223> The xaa at positions 2 to 4 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<222> (5)..(5)  
<223> The xaa at position 5 can be any basic amino acid, preferably lysine or arginine

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<223> The xaa at positions 6 to 8 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<222> (9)..(9)  
<223> The xaa at position 9 can be glycine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr  
1 5 10

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<223> The xaa at position 2 can be an uncharged aliphatic or aromatic amino acid, preferably a non-polar aliphatic or aromatic amino acid

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<222> (3)..(4)  
<223> The Xaa at positions 3 to 4 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<223> The Xaa at positions 6 to 8 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<223> The Xaa at position 9 can be glycine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

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Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Tyr  
1 5 10

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Arg Leu Leu Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Val Leu Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Ile Leu Leu Arg Leu Leu Leu Gly Tyr  
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Arg Leu Val Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Leu Ile Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Leu Leu Val Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Leu Leu Ile Arg Leu Leu Leu Gly Tyr  
1 5 10

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Arg Leu Leu Leu Arg Val Leu Leu Gly Tyr  
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Arg Leu Leu Leu Arg Ile Leu Leu Gly Tyr  
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Arg Leu Leu Leu Arg Leu Val Leu Gly Tyr  
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Arg Leu Leu Leu Arg Leu Ile Leu Gly Tyr  
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Arg Leu Leu Leu Arg Leu Leu Val Gly Tyr  
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Arg Leu Leu Leu Arg Leu Leu Ile Gly Tyr  
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Arg Trp Leu Leu Arg Leu Leu Leu Gly Tyr  
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Arg Leu Trp Leu Arg Leu Leu Leu Gly Tyr  
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Arg Leu Leu Trp Arg Leu Leu Leu Gly Tyr  
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Arg Leu Leu Leu Arg Trp Leu Leu Gly Tyr  
1 5 10

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Arg Leu Leu Leu Arg Leu Trp Leu Gly Tyr  
1 5 10

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Arg Leu Leu Leu Arg Leu Leu Trp Gly Tyr  
1 5 10

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<400> 23

Arg Tyr Leu Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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<400> 24

Arg Leu Tyr Leu Arg Leu Leu Leu Gly Tyr  
1 5 10

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<400> 25

Arg Leu Leu Tyr Arg Leu Leu Leu Gly Tyr  
1 5 10

<210> 26

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<400> 26

Arg Leu Leu Leu Arg Tyr Leu Leu Gly Tyr  
1 5 10

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<223> Synthetic

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Arg Leu Leu Leu Arg Leu Tyr Leu Gly Tyr  
1 5 10

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Arg Leu Leu Leu Arg Leu Leu Tyr Gly Tyr  
1 5 10

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<400> 29

Gly Ser Gly Gly Ser  
1 5

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Gly Gly Gly Ser  
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<222> (1)..(5)  
<223> The Xaa at positions 1 to 5 can be any amino acid

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<222> (7)..(9)  
<223> The Xaa at positions 7 to 9 can be any amino acid, where one of amino acids 7 to 9 can be absent

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<222> (11)..(22)  
<223> The Xaa at positions 11 to 22 can be any amino acid, where up to 8 of amino acids 11 to 22 can be absent

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<222> (24)..(26)  
<223> The Xaa at positions 24 to 26 can be any amino acid

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<222> (28)..(32)  
<223> The Xaa at positions 28 to 32 can be any amino acid

<400> 31

Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa  
20 25 30

<210> 32  
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 <223> The Xaa at positions 7 to 26 can be any amino acid, where up to 17 amino acids 7 to 26 can be absent

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Phe Gln Cys Glu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Ile Arg Ser His Thr  
 20 25 30

Gly

<210> 33  
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 <223> The Xaa at positions 2 to 3 can be any amino acid

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 <222> (4)..(24)  
 <223> The Xaa at positions 4 to 24 can be any amino acid, where up to 16 amino acids 4 to 24 can be absent

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 <222> (26)..(29)  
 <223> The Xaa at positions 26 to 29 can be any amino acid

<400> 33

Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Cys  
 20 25 30

<210> 34  
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 <223> The Xaa at positions 7 to 26 can be any amino acid, where up to  
 16 amino acids 7 to 26 can be absent

<400> 34

Val Lys Cys Phe Asn Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Thr Ala Arg Asn Cys  
 20 25 30

Arg

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<220>  
 <221> MISC\_FEATURE  
 <222> (10)..(29)  
 <223> The Xaa at positions 10 to 29 can be any amino acid, where up to  
 16 amino acids 10 to 29 can be absent

<400> 35

Met Asn Pro Asn Cys Ala Arg Cys Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Lys Ala  
 20 25 30

Cys Phe